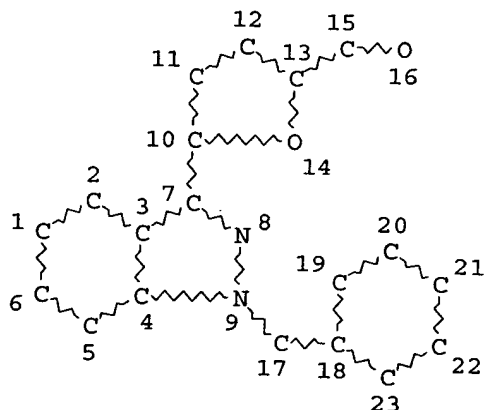```
=> d que stat 123
L1   STR
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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  23

STEREO ATTRIBUTES: NONE
L3          139 SEA FILE=REGISTRY SSS FUL L1
L21           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  170632-47-0
L22         138 SEA FILE=REGISTRY ABB=ON  PLU=ON  L3 NOT L21
L23          36 SEA FILE=HCAPLUS ABB=ON   PLU=ON  L22


=> d 123 ibib abs hitstr 1-36
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L23   ANSWER 1 OF 36   HCAPLUS   COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1341973 HCAPLUS
TITLE: The design and synthesis of YC-1 analogs as probes for
                         soluble guanylate cyclase
AUTHOR(S):   Hering, Kirk W.; Artz, Jennifer D.; Pearson, William
                         H.; Marletta, Michael A.
CORPORATE SOURCE: Department of Chemistry, University of Michigan, Ann
                         Arbor, MI, 48109-1055, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),
                         16(3), 618-621
                         CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB   Soluble guanylate cyclase (sGC) is highly activated in the presence of both
      YC-1 [1-benzyl-3-(5-hydroxymethyl-2-furyl)indazole] and CO. The design,
      synthesis, and activity (i.e., sGC activation) of photolabile analogs of
      YC-1 are presented. Initial results with 6-azido-3-(5-hydroxymethyl-2-
      furyl)-1-benzylindazole led to the synthesis of a tritium-labeled analog.
      When photoactivated, this analog labeled the α-subunit of sGC.
IT   876365-94-5P
      RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
      preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant

=> d his ful

       (FILE 'HOME' ENTERED AT 14:15:25 ON 13 MAR 2006)

       FILE 'REGISTRY' ENTERED AT 14:16:41 ON 13 MAR 2006
L1   STR
L2   10 SEA SSS SAM L1
L3   139 SEA SSS FUL L1

       FILE 'HCAPLUS' ENTERED AT 14:18:20 ON 13 MAR 2006
L4   170 SEA ABB=ON   PLU=ON L3

       FILE 'REGISTRY' ENTERED AT 14:19:11 ON 13 MAR 2006
L5   STR L1
L6   121 SEA SUB=L3 SSS FUL L5

       FILE 'HCAPLUS' ENTERED AT 14:20:07 ON 13 MAR 2006
L7   170 SEA ABB=ON   PLU=ON L6

       FILE 'REGISTRY' ENTERED AT 14:20:12 ON 13 MAR 2006
L8   STR L5
L9   0 SEA SUB=L3 SSS SAM L8
L10   1 SEA SUB=L3 SSS FUL L8
                D SCA
L11   STR L8
L12   93 SEA SUB=L3 SSS FUL L11

       FILE 'HCAPLUS' ENTERED AT 14:23:32 ON 13 MAR 2006
L13   170 SEA ABB=ON   PLU=ON L12

       FILE 'BEILSTEIN' ENTERED AT 14:24:50 ON 13 MAR 2006
L14   0 SEA SSS SAM L8
L15   0 SEA SSS FUL L8

       FILE 'MARPAT' ENTERED AT 14:25:13 ON 13 MAR 2006
L16   0 SEA SSS SAM L8
L17   2 SEA SSS FUL L8

       FILE 'HCAPLUS' ENTERED AT 14:25:30 ON 13 MAR 2006
L18   1 SEA ABB=ON   PLU=ON L10

       FILE 'MARPAT' ENTERED AT 14:25:34 ON 13 MAR 2006
L19   1 SEA ABB=ON   PLU=ON L17 NOT L18

       FILE HOME

       FILE REGISTRY
       Property values tagged with IC are from the ZIC/VINITI data file
       provided by InfoChem.

       STRUCTURE FILE UPDATES: 12 MAR 2006   HIGHEST RN 876514-29-3
       DICTIONARY FILE UPDATES: 12 MAR 2006   HIGHEST RN 876514-29-3

       New CAS Information Use Policies, enter HELP USAGETERMS for details.

       TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
*****************************************************************
*                                                               *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,  *
* effective March 20, 2005.  A new display format, IDERL, is now   *
* available and contains the CA role and document type information. *
*                                                               *
*****************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

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FILE COVERS 1907 - 13 Mar 2006   VOL 144 ISS 12
FILE LAST UPDATED: 12 Mar 2006   (20060312/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

FILE BEILSTEIN
FILE LAST UPDATED ON JANUARY 17, 2006

FILE COVERS 1771 TO 2005.
 FILE CONTAINS 9,428,406 SUBSTANCES

>>>PLEASE NOTE: Reaction Data and substance data are stored in
    separate documents and can not be searched together in one query.
    Reaction data for BEILSTEIN compounds may be displayed
    immediately with the display codes PRE (preparations) and REA
    (reactions). A substance answer set retrieved after the search
    for a chemical name, a compounds with available reaction
    information by combining with PRE/FA, REA/FA or more generally
    with RX/FA. The BEILSTEIN Registry Number (BRN) is the link
    between a BEILSTEIN compound and belonging reactions. For mo
    detailed reaction searches BRNs can be searched as reaction
    partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

```
**********************************************************************
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.              *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE        *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.                      *
* FOR PRICE INFORMATION SEE HELP COST                              *
**********************************************************************
     NEW
* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE
  SEARCHED, SELECTED AND TRANSFERRED.
* NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES,
  ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A
  COMPOUND AT A GLANCE.
```

FILE MARPAT
FILE CONTENT: 1910-PRESENT VOL 144 ISS 11 (20060310/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1910-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

```
US    2006030554 09 FEB 2006
DE 102004053311 05 JAN 2006
EP       1609846 28 DEC 2005
JP    2006003337 05 JAN 2006
WO    2006012333 02 FEB 2006
GB       2415429 28 DEC 2005
FR       2873371 27 JAN 2006
RU       2266908 27 DEC 2005
CA       2495134 23 DEC 2005
```

Expanded G-group definition display now available.

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```
=> fil marpat
FILE 'MARPAT' ENTERED AT 14:27:14 ON 13 MAR 2006
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```

FILE CONTENT: 1910-PRESENT VOL 144 ISS 11 (20060310/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1910-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):
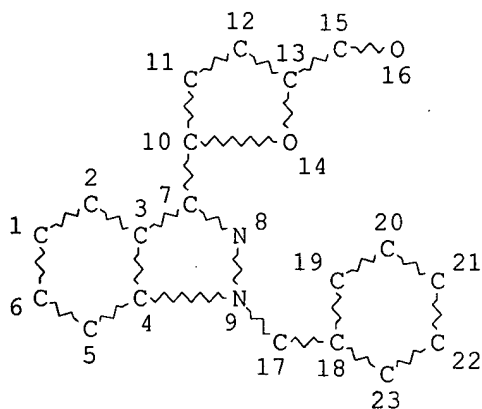
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US    2006030554 09 FEB 2006
DE 102004053311 05 JAN 2006
EP       1609846 28 DEC 2005
JP    2006003337 05 JAN 2006
WO    2006012333 02 FEB 2006
GB       2415429 28 DEC 2005
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RU   2266908 27 DEC 2005
CA   2495134 23 DEC 2005

Expanded G-group definition display now available.

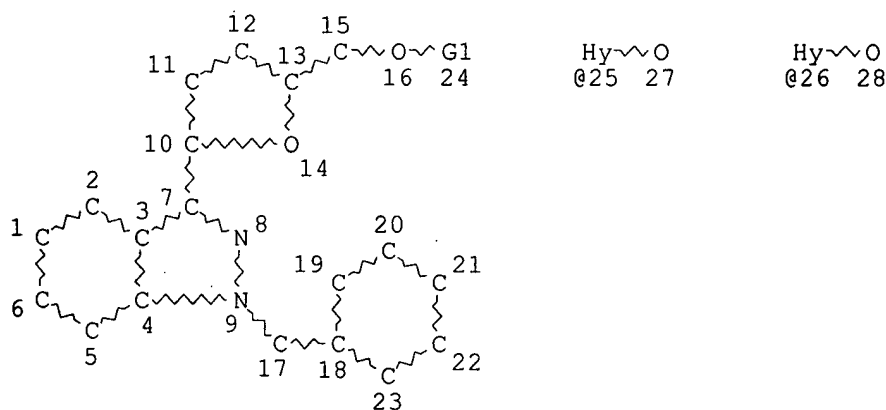New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> d que stat 118
L1   STR

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      11   C  13  C    O
       C         C      16
       }         }
   10  C         O
                 14
    2    7
     C  3 C
 1  C     C    N  8
    }     }       }
 6  C     C    N        19   20
    C     4   9          C   C  21
    5          17  18     C      C
                 C   C    }      }
                  C        C   C  22
                   23
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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   23

STEREO ATTRIBUTES: NONE
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L8   STR

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       C         C      16  24       @25   27       @26   28
       }         }
   10  C         O
                 14
    2    7
     C  3 C
 1  C     C    N  8
    }     }       }
 6  C     C    N        19   20
    C     4   9          C   C  21
    5          17  18     C      C
                 C   C    }      }
                  C        C   C  22
                   23
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VAR G1=25/26
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM

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GGCAT   IS MCY  SAT  AT  25
GGCAT   IS MCY  SAT  AT  26
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS E5 C  E1 O  AT  25
ECOUNT  IS E4 C  E1 O  AT  26
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

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L18            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L10
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YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y
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L18   ANSWER 1 OF 1   HCAPLUS   COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:902206 HCAPLUS
DOCUMENT NUMBER: 141:388641
TITLE: HIF-1 expression inhibition-based method for
                           inhibiting tumor angiogenesis and tumor growth
INVENTOR(S):   Park, Jong-Wan; Chun, Yang-Sook; Kim, Jinho
PATENT ASSIGNEE(S):   Bizbiotech Co., Ltd., USA
SOURCE: PCT Int. Appl., 69 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

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        PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
        ---------------     ----   --------    --------------------    --------
        WO 2004091648       A1     20041028    WO 2004-US10327         20040401
           W:   AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
                LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
                NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
                TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
           RW:  BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
                BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
                ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
                SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
                TD, TG
        US 2004198798       A1     20041007    US 2003-407136          20030407
        US 2005096370       A1     20050505    US 2003-642363          20030814
PRIORITY APPLN. INFO.:                         US 2003-407136      A   20030407
                                               US 2003-642363      A   20030814
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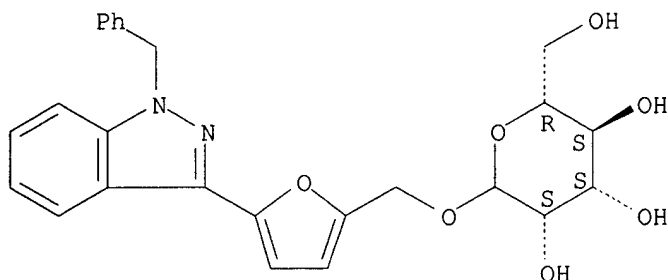
OTHER SOURCE(S):   MARPAT 141:388641
AB   The invention provides methods and pharmaceutical compns. for inhibiting
     expression of HIF-1 and HIF-1-regulated genes, angiogenesis, tumor growth,
     or tumor progression/metastasis, comprising contacting the tumor cells or
     tissue with a composition comprising 3-(5'-hydroxymethyl-2'-furyl)-1-
     benzylindazole, or a derivative thereof.
IT   781663-33-0

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
       (HIF-1 expression inhibition-based method for inhibiting tumor
       angiogenesis and tumor growth)
RN   781663-33-0 HCAPLUS
CN   D-Mannopyranoside, [5-[1-(phenylmethyl)-1H-indazol-3-yl]-2-furanyl]methyl
     (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 3   THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil marpat
FILE 'MARPAT' ENTERED AT 14:27:38 ON 13 MAR 2006
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FILE CONTENT: 1910-PRESENT VOL 144 ISS 11 (20060310/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1910-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):
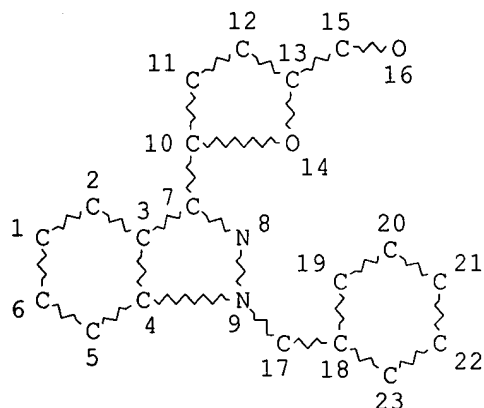
US   2006030554 09 FEB 2006
DE 102004053311 05 JAN 2006
EP   1609846 28 DEC 2005
JP   2006003337 05 JAN 2006
WO   2006012333 02 FEB 2006
GB   2415429 28 DEC 2005
FR   2873371 27 JAN 2006
RU   2266908 27 DEC 2005
CA   2495134 23 DEC 2005

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=> d que stat 119
L1   STR

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

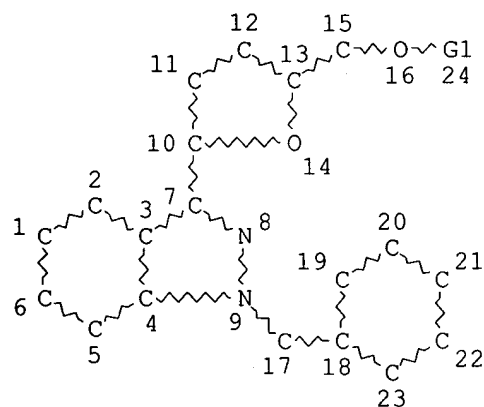GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
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L8   STR

VAR G1=25/26
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY   SAT   AT   25
GGCAT   IS MCY   SAT   AT   26
DEFAULT ECLEVEL IS LIMITED
ECOUNT   IS E5 C   E1 O   AT   25
ECOUNT   IS E4 C   E1 O   AT   26

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

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L17         2 SEA FILE=MARPAT SSS FUL L8
L18         1 SEA FILE=HCAPLUS ABB=ON  PLU=ON   L10
L19         1 SEA FILE=MARPAT ABB=ON  PLU=ON   L17 NOT L18
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=> d 119 ibib abs qhit
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L19 ANSWER 1 OF 1 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 142:441845 MARPAT
TITLE: Method for inhibiting tumor angiogenesis and tumor
                         growth
INVENTOR(S):   Park, Jong-Wan; Chun, Yang-Sook; Kim, Jinho
PATENT ASSIGNEE(S):   Bizbiotech Co., Ltd., S. Korea
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S.
                         Ser. No. 407,136.
                         CODEN: USXXCO
DOCUMENT TYPE: Patent
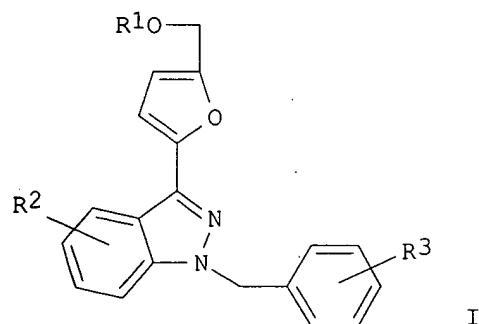LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

        PATENT NO.   KIND DATE   APPLICATION NO.   DATE
        ----------   ---- --------   ---------------- --------
        US 2005096370   A1   20050505   US 2003-642363   20030814
        US 2004198798   A1   20041007   US 2003-407136   20030407
        WO 2004091648   A1   20041028   WO 2004-US10327   20040401
              W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                  CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                  GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
                  LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
                  NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
                  TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
              RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
                  BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
                  ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
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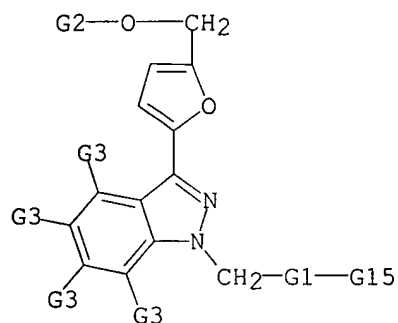   TD, TG
PRIORITY APPLN. INFO.:   US 2003-407136   20030407
                                                US 2003-642363   20030814
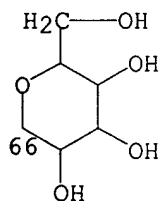GI

I

AB   The present invention provides methods and pharmaceutical compns. for

inhibiting expressions of HIF-1 and HIF-1-regulated genes, angiogenesis,
tumor growth, or tumor progression/metastasis comprising contacting the
tumor cells or tissue with a composition comprising 3-(5'-hydroxymethyl-2'-
furyl)-1-benzylindazole, or mixture of compds. of the formula I (where R1 =
polyol, R2, R3 = H, alkyl, alkoxy,halogen, etc.).

MSTR 1


```
G1      = phenylene
G2      = 66
```



```
Patent location:        claim 7
Note:                   substitution is restricted
Note:                   additional ring and oxo formation also disclosed
Note:                   and pharmaceutically acceptable solvates and salts
Stereochemistry:        and isomers and mixtures of isomers
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